White Pinnacle

ITERATION 5 TEST CASE

Contents

[State Transition 2](#_Toc407109769)

[Temperature Charts 3](#_Toc407109770)

[Respiratory Rate Chart 5](#_Toc407109771)

[Heart Rate Chart 6](#_Toc407109772)

[Blood Pressure Charts 8](#_Toc407109773)

[SPO Charts 9](#_Toc407109774)

[Barcode Scanning (Patient) 11](#_Toc407109775)

[Barcode Scanning (Medication) 11](#_Toc407109776)

# State Transition

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | State transition | Ensure that when lecturer changes the state, it is reflected in the student's portal | - | 1. Log in lec portal  2. Change state of the activated case from state 1 to state 2 3. Log in student portal 4. Check state | State of scenario 1 should be changed to state 2 | State of scenario 1 should be changed to state 2 | Pass |  |
| 2 | State transition | Ensure that the state change is only for the activated scenario | - | 1. Log in lec portal  2. Change state of the activated case from state 1 to state 2 3. Check if the states for other scenario are the same | State of other scenarios should remain the same | State of other scenarios should remain the same | Pass |  |
| 3 | State transition | Ensure that the scenario information remains the same | - | 1. Log in lec portal  2. Change state of the activated case from state 1 to state 2 3. Check if the scenario information is the same | Scenario information should remain the same | Scenario information should remain the same | Pass |  |
| 4 | State transition | Ensure that the prescription for the state is correct after the state change | - | 1. Log in lec portal  2. Change state of the activated case from state 1 to state 2 3. Check if the prescription is changed correctly | The prescription should be for **all states activated**, if there are no reports, a message should be shown to tell the use that there is no report for this state | The prescription should be for **all states activated**, if there are no reports, a message should be shown to tell the use that there is no report for this state | Pass |  |
| 5 | State transition | Ensure that the report for the state is correct after the state change | - | 1. Log in lec portal  2. Change state of the activated case from state 1 to state 2 3. Check if the report is changed correctly | The report should be for **all states activated**, if there are no reports, a message should be shown to tell the use that there is no report for this state | The report should be for **all states activated**, if there are no reports, a message should be shown to tell the use that there is no report for this state | Pass |  |
| 6 | State transition | Ensure that patient remains the same after state change | - | 1. Log in lec portal  2. Change state of the activated case from state 1 to state 2 3. Log in to student account  4. Check that it is still the same patient | Patient should remain the same | Patient should remain the same | Pass |  |
| 7 | State transition | Ensure that the medication is changed according to the state | - | 1. Log in lec portal  2. change state of the case  3. log in student account  4. check that the medication is the same | Medicine displayed should be according to the **all states activated** | Medicine displayed should be according to the **all states activated** | Pass |  |
| 8 | State transition | Ensure that if no cases are activated, user will not be able to change the state | - | 1. Log in lec portal  2. Deactivate all cases  3. Select activate state  4. User should not be able to activate state | Message should be prompted to tell user that no case is activated | Message should be prompted to tell user that no case is activated | Pass |  |
| 9 | State transition | Ensure that only one state is activated at one time |  | 1. Log in lec portal  2. Select activate state  4. Check how many states are activated | There should only be one activated state | There should only be one activated state | Pass |  |
| 10 | State transition | Ensure that appropriate medicine are disabled after state changes |  | 1. Log in lec portal  2. Select activate state | Appropriate medicine should be disabled and showed as discontinued | Appropriate medicine should be disabled and showed as discontinued | Pass | SQ: newly added |

# Temperature Charts

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | Temperature Charts | Ensure that when the vital signs are updated, the chart is updated with the latest input |  | 1. View chart 2. Update vital signs 3. Check if the latest input is added into the chart | Chart should consist of all data points including the latest submission | Chart should consist of all data points including the latest submission | Pass |  |
| 2 | Temperature Charts | Ensure that chart shows the same number of data points as the database |  | 1. View chart 2. Update vital signs 3. Check if the chart contains the same number of data points | Chart should contain the same number of data points as the database | Chart should contain the same number of data points as the database | Pass |  |
| 3 | Temperature Charts | Ensure that each chart is showing the respective data |  | 1. View chart 2. Update vital signs 3. Check if the chart is for the respective chart (e.g. temperature chart should not have data for heart rate chart) | Chart should show data for the respective chart | Chart should show data for the respective chart | Pass |  |
| 4 | Temperature Charts | Ensure that the chart is referring to the correct scenario |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular scenario | Chart should be referring to the correct scenario | Chart should be referring to the correct scenario | Pass |  |
| 5 | Temperature Charts | Ensure that the change of state does not affect the data points on the chart |  | 1. View chart 2. Update vital signs 3. Change state of the scenario 4. All data points entered previously should still be shown on the chart | Charts should remain the same for the same scenario | Charts should remain the same for the same scenario | Pass |  |
| 6 | Temperature Charts | Ensure that the charts displayed is for the correct patient |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular patient | Charts displayed should be for the particular scenario | Charts displayed should be for the particular scenario | Pass |  |
| 7 | Temperature Charts | Ensure that the date and time for each data point is correct |  | 1. View chart 2. Update vital signs 3. Check if the date and time is correct | Date and time should be the current time | Date and time should be the current time | Pass |  |
| 8 | Temperature Charts | Ensure that the most updated data is plotted at the back |  | 1. Update the temperature  2. Check where the most updated data is plotted | Data point should be plotted at the back of the graph | Data point should be plotted at the back of the graph | Pass |  |

# Respiratory Rate Chart

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | Respiratory Rate  Bottom of Form | Ensure that when the vital signs are updated, the chart is updated with the latest input |  | 1. View chart 2. Update vital signs 3. Check if the latest input is added into the chart | Chart should consist of all data points including the latest submission | Chart should consist of all data points including the latest submission | Pass |  |
| 2 | Respiratory Rate | Ensure that chart shows the same number of data points as the database |  | 1. View chart 2. Update vital signs 3. Check if the chart shows the same number of data points as the database | Chart should contain the same number of data points as the database | Chart should contain the same number of data points as the database | Pass |  |
| 3 | Respiratory Rate | Ensure that each chart is showing the respective data |  | 1. View chart 2. Update vital signs 3. Check if the chart is for the respective chart (e.g. temperature chart should not have data for heart rate chart) | Chart should show data for the respective chart | Chart should show data for the respective chart | Pass |  |
| 4 | Respiratory Rate | Ensure that the chart is referring to the correct scenario |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular scenario | Chart should be referring to the correct scenario | Chart should be referring to the correct scenario | Pass |  |
| 5 | Respiratory Rate | Ensure that the change of state does not affect the data points on the chart |  | 1. View chart 2. Update vital signs 3. Change state of the scenario 4. All data points entered previously should still be shown on the chart | Charts should remain the same for the same scenario | Charts should remain the same for the same scenario | Pass |  |
| 6 | Respiratory Rate | Ensure that the charts displayed is for the correct patient |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular patient | Charts displayed should be for the particular scenario | Charts displayed should be for the particular scenario | Pass |  |
| 7 | Respiratory Rate | Ensure that the date and time for each data point is correct |  | 1. View chart 2. Update vital signs 3. Check if the date and time is correct | Date and time should be the current time | Date and time should be the current time | Pass |  |
| 8 | Respiratory Rate | Ensure that the most updated data is plotted at the back |  | 1. Update the temperature  2. Check where the most updated data is plotted | Data point should be plotted at the back of the graph | Data point should be plotted at the back of the graph | Pass |  |

# Heart Rate Chart

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | Heart Rate | Ensure that when the vital signs are updated, the chart is updated with the latest input |  | 1. View chart 2. Update vital signs 3. Check if the latest input is added into the chart | Chart should consist of all data points including the latest submission | Chart should consist of all data points including the latest submission | Pass |  |
| 2 | Heart Rate | Ensure that chart shows the same number of data points as the database |  | 1. View chart 2. Update vital signs 3. Check if the chart shows the same number of data points as the database | Chart should contain the same number of data points as the database | Chart should contain the same number of data points as the database | Pass |  |
| 3 | Heart Rate | Ensure that each chart is showing the respective datas |  | 1. View chart 2. Update vital signs 3. Check if the chart is for the respective chart (e.g. temperature chart should not have data for heart rate chart) | Chart should show data for the respective chart | Chart should show data for the respective chart | Pass |  |
| 4 | Heart Rate | Ensure that the chart is refering to the correct scenario |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular scenario | Chart should be referring to the correct scenario | Chart should be referring to the correct scenario | Pass |  |
| 5 | Heart Rate | Ensure that the change of state does not affect the data points on the chart |  | 1. View chart 2. Update vital signs 3. Change state of the scenario 4. All data points entered previously should still be shown on the chart | Charts should remain the same for the same scenario | Charts should remain the same for the same scenario | Pass |  |
| 6 | Heart Rate | Ensure that the charts displayed is for the correct patient |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular patient | Charts displayed should be for the particular scenario | Charts displayed should be for the particular scenario | Pass |  |
| 7 | Heart Rate | Ensure that the date and time for each data point is correct |  | 1. View chart 2. Update vital signs 3. Check if the date and time is correct | Date and time should be the current time | Date and time should be the current time | Pass |  |
| 8 | Heart Rate | Ensure that the most updated data is plotted at the back |  | 1. Update the temperature  2. Check where the most updated data is plotted | Data point should be plotted at the back of the graph | Data point should be plotted at the back of the graph | Pass |  |

# Blood Pressure Charts

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | Blood Pressure | Ensure that when the vital signs are updated, the chart is updated with the latest input |  | 1. View chart 2. Update vital signs 3. Check if the latest input is added into the chart | Chart should consist of all data points including the latest submission | Chart should consist of all data points including the latest submission | Pass |  |
| 2 | Blood Pressure | Ensure that chart shows the same number of data points as the database |  | 1. View chart 2. Update vital signs 3. Check if the chart shows the same number of data points as the database | Chart should contain the same number of data points as the database | Chart should contain the same number of data points as the database | Pass |  |
| 3 | Blood Pressure | Ensure that each chart is showing the respective data |  | 1. View chart 2. Update vital signs 3. Check if the chart is for the respective chart (e.g. temperature chart should not have data for heart rate chart) | Chart should show data for the respective chart | Chart should show data for the respective chart | Pass |  |
| 4 | Blood Pressure | Ensure that the chart is refering to the correct scenario |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular scenario | Chart should be referring to the correct scenario | Chart should be referring to the correct scenario | Pass |  |
| 5 | Blood Pressure | Ensure that the change of state does not affect the data points on the chart |  | 1. View chart 2. Update vital signs 3. Change state of the scenario 4. All data points entered previously should still be shown on the chart | Charts should remain the same for the same scenario | Charts should remain the same for the same scenario | Pass |  |
| 6 | Blood Pressure | Ensure that the charts displayed is for the correct patient |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular patient | Charts displayed should be for the particular scenario | Charts displayed should be for the particular scenario | Pass |  |
| 7 | Blood Pressure | Ensure that the date and time for each data point is correct |  | 1. View chart 2. Update vital signs 3. Check if the date and time is correct | Date and time should be the current time | Date and time should be the current time | Pass |  |
| 8 | Blood Pressure | Ensure that the most updated data is plotted at the back |  | 1. Update the temperature  2. Check where the most updated data is plotted | Data point should be plotted at the back of the graph | Data point should be plotted at the back of the graph | Pass |  |

# SPO Charts

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | SPO Chart | Ensure that when the vital signs are updated, the chart is updated with the latest input |  | 1. View chart 2. Update vital signs 3. Check if the latest input is added into the chart | Chart should consist of all data points including the latest submission | Chart should consist of all data points including the latest submission | Pass |  |
| 2 | SPO Chart | Ensure that chart shows the same number of data points as the database |  | 1. View chart 2. Update vital signs 3. Check if the chart shows the same number of data points as the database | Chart should contain the same number of data points as the database | Chart should contain the same number of data points as the database | Pass |  |
| 3 | SPO Chart | Ensure that each chart is showing the respective datas |  | 1. View chart 2. Update vital signs 3. Check if the chart is for the respective chart (e.g. temperature chart should not have data for heart rate chart) | Chart should show data for the respective chart | Chart should show data for the respective chart | Pass |  |
| 4 | SPO Chart | Ensure that the chart is refering to the correct scenario |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular scenario | Chart should be referring to the correct scenario | Chart should be referring to the correct scenario | Pass |  |
| 5 | SPO Chart | Ensure that the change of state does not affect the data points on the chart |  | 1. View chart 2. Update vital signs 3. Change state of the scenario 4. All data points entered previously should still be shown on the chart | Charts should remain the same for the same scenario | Charts should remain the same for the same scenario | Pass |  |
| 6 | SPO Chart | Ensure that the charts displayed is for the correct patient |  | 1. View chart 2. Update vital signs 3. Check if the chart's data are for the particular patient | Charts displayed should be for the particular scenario | Charts displayed should be for the particular scenario | Pass |  |
| 7 | SPO Chart | Ensure that the date and time for each data point is correct |  | 1. View chart 2. Update vital signs 3. Check if the date and time is correct | Date and time should be the current time | Date and time should be the current time | Pass |  |
| 8 | SPO Chart | Ensure that the most updated data is plotted at the back |  | 1. Update the temperature  2. Check where the most updated data is plotted | Data point should be plotted at the back of the graph | Data point should be plotted at the back of the graph | Pass |  |

# All Charts

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | All Charts | Ensure that when the vital signs are updated, the chart is updated with the latest input | - | 1. View chart 2. Update all vital signs with different values 3. Check if the latest inputs are added into the charts | Chart should consist of all data points. Temperature chart should be on its own. All other charts are combined into 1 chart. Legend should be shown at the bottom | Chart should consist of all data points. Temperature chart should be on its own. All other charts are combined into 1 chart. Legend should be shown at the bottom | Pass |  |
| 2 | All Charts | Ensure that when the vital signs are updated, the chart is updated with the latest input | - | 1. View chart 2. Update all vital signs with same value (37) 3. Check if the latest inputs are added into the charts | Chart should consist of all data points. Temperature chart should be on its own. All other charts are combined into 1 chart. When hovered over, it should show the values based on the legend. Legend should be shown at the bottom | Chart should consist of all data points. Temperature chart should be on its own. All other charts are combined into 1 chart. When hovered over, it should show the values based on the legend. Legend should be shown at the bottom | Pass |  |

# Intake and Output Charts (Combined)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | Intake and Output Charts | Ensure that when the Intake - Oral/Intragastric is updated, the intake and output chart is updated with the latest input | - | 1. Enter values in Intake - Oral/Intragastric (type) : porridge  2. Enter values in Intake Intake - Oral/Intragastric (amount): 1 bowl | Intake and output chart should show the most updated oral/intragastric values. Other values in the same row should be displayed as “-“ | Intake and output chart should show the most updated oral/intragastric values. Other values in the same row should be displayed as “-“ | Pass |  |
| 2 | Intake and Output Charts | Ensure that when the Intake - Intravenous is updated, the intake and output chart is updated with the latest input | - | 1. Enter values in Intake - Intravenous (type) : med  2. Enter values in Intake Intake - Intravenous (amount): 10ml | Intake and output chart should show the most updated Intravenous values. Other values in the same row should be displayed as “-“ | Intake and output chart should show the most updated Intravenous values. Other values in the same row should be displayed as “-“ | Pass |  |
| 3 | Intake and Output Charts | Ensure that when the output is updated, the intake and output chart is updated with the latest input | - | 1. Enter values in output - poop | Intake and output chart should show the most updated output values. Other values in the same row should be displayed as “-“ | Intake and output chart should show the most updated output values. Other values in the same row should be displayed as “-“ | Pass |  |
| 4 | Intake and Output Charts | Ensure that when the intake (oral/intragastric), intake (intravenous), output is updated, the intake and output chart is updated with the latest input | - | 1. Enter values in Intake - Intravenous (type) : med  2. Enter values in Intake Intake - Intravenous (amount): 10ml  3. Enter values in output - poop | Intake and output chart should show the most updated output values. | Intake and output chart should show the most updated output values. | Pass |  |
| 5 | Intake and Output Charts | Ensure that when the intake (oral/intragastric), intake (intravenous), output is updated, the intake and output chart is updated with the latest input with the correct time |  | 1. Enter values in Intake - Intravenous (type) : med  2. Enter values in Intake Intake - Intravenous (amount): 10ml  3. Enter values in output - poop | Intake and output chart should show the most updated output values with the correct time | Intake and output chart should show the most updated output values with the correct time | Pass |  |

# Barcode Scanning (Patient)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | Barcode Scanning (Patient) | Validate that student is able to scan the barcode | - | 1. Scan barcode provided | System should prompt if the patient barcode is correct or wrong | System should prompt if the patient barcode is correct or wrong | Pass |  |
| 2 | Barcode Scanning (Patient) | Validate that the barcode matches the right patient |  | 1. Scan barcode provided | Barcode should match. Success message should be displayed | Barcode should match. Success message should be displayed | Pass |  |
| 3 | Barcode Scanning (Patient) | Validate that the barcode matches the right patient |  | 1. Scan a different barcode | Barcode should not match. Error message should be displayed | Barcode should not match. Error message should be displayed | Pass |  |

# Barcode Scanning (Medication)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/ Fail | Remarks |
| 1 | Barcode Scanning (Medicine) | Validate that student is able to scan the barcode | - | 1. Scan barcode provided | System should prompt if the patient barcode is correct or wrong | System should prompt if the patient barcode is correct or wrong | Pass |  |
| 2 | Barcode Scanning (Medicine) | Validate that the barcode matches the right medicine |  | 1. Scan barcode provided | Barcode should match. Success message should be displayed | Barcode should match. Success message should be displayed | Pass |  |
| 3 | Barcode Scanning (Medicine) | Validate that the barcode matches the right medicine |  | 1. Scan a different barcode | Barcode should not match. Error message should be displayed | Barcode should not match. Error message should be displayed | Pass |  |
| 4 | Barcode Scanning (Medicine) | Validate that students will not be able to scan the medicine barcode if the patient barcode is incorrect |  | 1. Scan a different barcode | Barcode fields for medicine should be greyed out | Barcode fields for medicine should be greyed out | Pass |  |
| 5 | Barcode Scanning (Medicine) | Validate that user the patient ID should be scanned first before the medications can be scanned |  | 1. Scan medicine barcode | User should be prompted to scan the patient first | User should be prompted to scan the patient first | Pass |  |